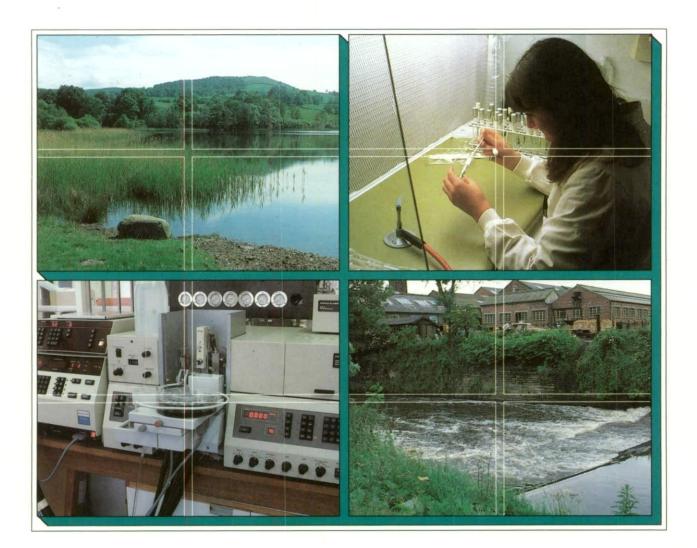


Quality audit of biological samples for the 1990 River Quality Survey NRA South West Region

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Quality Audit of Biological Samples for the 1990 River Quality Survey NRA South West Region

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1. INTRODUCTION

The 1990 River Quality Survey included the sampling of aquatic macro-invertebrates for biological assessment of river quality throughout the United Kingdom. In England and Wales the survey was undertaken by the National Rivers Authority (NRA), the River Purification Boards (RPBs) sampled in Scotland and the Department of Economic Development (DED) undertook the work in Northern Ireland.

Approximately 7750 sites were surveyed, the majority of which were sampled in spring, summer and autumn. Standard collection procedures were used and the sampling strategy was compatible with RIVPACS (River InVertebrate Prediction And Classification System), which has been developed by the Institute of Freshwater Ecology (IFE). Most of the remaining sites were sampled in a single season only, in order to extend the scope of the survey. For a variety of reasons, a few locations were sampled in just two seasons.

Samples were sorted for the families of macro-invertebrates included in the Biological Monitoring Working Party (BMWP) system. Taxa present were recorded on site data sheets. Sample processing and recording techniques varied from region to region.

In order to undertake this massive programme of fieldwork and sample processing, a large number of new staff were employed by the surveying agencies. In view of the number of staff involved and the variability of sample processing techniques, it was recognised that an independent quality control exercise was necessary to promote a consistently high level of reliability.

The IFE was contracted to undertake an audit of the sample sorting and identification performance of each NRA region, RPB and the DED. This report collates the results of 63 samples audited for South West Region of the NRA. The IFE was not required to perform any statistical analyses nor interpretation of the results of the audit.

2. SAMPLE SELECTION

Nearly all samples from the 1990 River Quality Survey were sent to IFE for storage. They were catalogued on arrival and placed in crates, such that individual samples were readily accessible. A stratified random selection of samples for each sample processor was then made. Selection was undertaken by IFE staff and no selection was made before each sample had been received by IFE. Thus, sample processors had no means of knowing which of their samples would be audited.

The total number of sample processors employed nationally during the survey was considerably higher than that anticipated at the outset. As a consequence, the number of samples audited per processor was limited by the need to keep within the contracted overall total of 700 samples. A minimum of 4 samples was audited per processor, except where individuals processed very few samples or did not process material from each of the 3 seasons.

Sample selection was weighted towards spring samples in order to give early feedback on the blindspots of particular sorters and problems of identification.

3. SAMPLE PROCESSING

Biologists processing samples for the 1990 Survey were instructed to sort their samples, ideally within the laboratory, and select examples of each scoring taxon within the BMWP system. In most cases, the invertebrates were placed in a vial of preservative (4% formaldehyde solution or 70% industrial alcohol) and the BMWP taxa were listed on a data sheet. The vial of animals and the sorted material were then returned to the sample container and preservative added. Thus, each sample available to IFE for selection for audit should have included:

- i) a list of the BMWP FAMILIES FOUND IN THE SAMPLE
- ii) a vial containing representatives from each family
- iii) the preserved sample

When these three elements were present, the sequence of operations at IFE was as follows:

- a) The remainder of the sample was sorted and the BMWP families listed
- b) The families contained within the vial were identified and listed
- c) A comparison was made between the NRA listing of families and those identified from the vial by IFE
- d) A comparison was made between the NRA listing of families and those found in the sample by IFE
- e) "Losses" or "gains" from the NRA listing of families were noted. In the case of "gains", each additional family was identified, where possible, to species level, in order to clarify any specific repetitive errors.

For a number of different reasons, some samples did not include a vial containing representative examples of the families listed on the NRA data sheet. These samples were avoided for audit, where possible. When selection of such samples was unavoidable (eg where a particular sorter would otherwise have been excluded from the audit exercise), only. operations a), d) and e) above were appropriate.

Several directives were issued to IFE relating to the treatment of BMWP taxa. Terrestrial representatives of BMWP scoring families, animals deemed to have been dead at the time of sampling, cast insect skins, pupal exuviae, empty mollusc shells and tail ends of "living" specimens were to be excluded from the listing of families present. Trichopteran pupae, although not routinely identified by many biologists, were to be included in the listing of families.

4. **REPORTING**

The results of each sample audit were recorded on a standard report form (Table 1). For audit samples where a vial of animals was included, the comparison between the NRA listing and the taxa found in the vial by IFE was shown in box A of the report form. Discrepancies could be due to carelessness, misidentifications or errors in completing the NRA data sheet. Families not on the NRA listing but found by IFE in the remainder of the sample were entered in box B of the report form under "additional families". When the families listed as "losses" in section A of the report form were compared with the full list of families recorded in the sample by IFE, some apparent losses from the vial were offset by the presence of those families in the remainder of the sample. These taxa were therefore listed in the "losses" box of section A and the "gains" box of section B and were neither a net loss nor a net gain. In these cases, the families were marked with an asterisk in both boxes. Such errors are noted as "omissions" in the tables which summarise the results for each season (Tables 2, 3 and 4).

Species identifications, state of development (eg adult or larval coleopterans) and the presence of a single representative of a family within the remainder of the sample were recorded in the notes section of the report form. Where the NRA data sheet indicated that a family was noted and released at the site, this was recorded in the notes section but not included as a "loss", even though the family was not found in the vial.

For those samples which did not contain a vial of animals, box A of the report form was not applicable (N/a). Families not on the NRA list but present in the sample were listed in box B under "additional families" as before. Families recorded on the NRA list but not found by IFE were indicated on the left hand side of box B. If the vial of animals was retained by the NRA, entries in this box could include the sole representative of a family which was removed by the NRA, a family seen at the site which escaped or was released (without mention being made on the NRA data sheet), inaccurate identification, the wrong family box being ticked on the NRA data sheet or the family being present in the sample but missed by IFE.

Results of the audits of individual samples are presented in Table 5.

ACKNOWLEDGEMENTS

Thanks to Mrs Jessica Winder and Mrs Kay Symes for assistance with cataloguing and storage of samples and Mrs Valerie Palmer for typing the manuscript.

TABLE 1. The IFE Report form

1990 RIVER QUALITY SURVEY AQC - BIOLOGICAL SAMPLES RECION RIVER SEASON SITE SORTER SAMPLE CODE AQC OF BMWP FAMILIES A. IN VIAL B. IN SAMPLE LOSSES CAINS VIAL A BMWP FAMILIES NOT ADDITIONAL FAMILIES FOUND BY IFE FOUND BY IFE Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE . • В <u>SAMPLE</u> ADDITIONAL FAMILIES BMWP FAMILIES NOT FOUND BY IFE FOUND BY IFE Differences between: (This box only completed i) BMWP families listed when no vial supplied on sample data sheet with sample) and ii) BMWP families found in SAMPLE by IFE

NET LOSSES NET CAINS

TABLE 2.The 39 spring samples audited for South West Region, with sample sorter initials and
numbers of taxa 'lost', 'gained' and 'omitted'

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River	Site	Sorter	Losses	Gains	Omissions
Hawkridge Brook	Hawkridge Bridge	JBS	0	1	1
Venn	Venn Bridge	LMB	1	6	0
Sterridge	Old Sawmill Inn	RG	0	4	0
Lamorna Stream	Lamorna	TJR	0	4	0
Helford Gweek	Mether-Uny Mill	NB	0	4	0
Porth Navas Stream	Trenarth Bridge	MAV	0	5	0
Bray	Meethe Barton	RG	0	0	0
Newlyn	Buryas Bridge	MAV	0	2	0
Abbey	Hartland Abbey	LB	1	1	0
Hayle	St Erth GS	TJR	0	1	0
Hayle	Godolphin Bridge	NB	0	2	0
Crooked Oak Stream	Yeo Barton Br	JBS	0	1	0
Helford	Mellangoose	TJR	0	7	0
Mylor Creek	Mylor Bridge	DJP	0	3	0
Torridge	Woodford Bridge	PG	0	2	0
Taw	Park Mill Bridge	AA	0	1	0
Torridge	Rothern Bridge	PG	0	4	0
Neet	A39 Hele Bridge	PAB	4	6	0
Porthleven	U/s Harbour	PAB	1	0	1
Helford	U/s Gweek Mill	MAV	0	2	0
Okement	South Dornaford	AA	0	3	0
Lapford Yeo	Bow Bridge	PG	1	2	0
Allen	Idless Bridge	DJP	0	3	0
Otter	Otterton Bridge	AA	1	2	0
Clyst	A38 Broadclyst Br	RG	3	0	0
Otter	Weston	DH/JS	1	0	0
Lynher	Notter Bridge	PAB	0	6	0
Offwell Brook	Offwell Footbridge	EP	1	2	0
Exe	Exebridge	RG	1	0	0
Corry Brook	Old Corryton	LAW	2	2	0
Inny	St Clether Bridge	NB	0	2	0
Penpont Water	Two Bridges	DJP	1	0	0
Lowman	A373 Tiverton Bridge		0	0	0
Waldon	Sutcombe Bridge	LMB	0	0	0
Coly	Woodbridge	EP	0	1	0
Culm	Skinners Fm Br	LAW	1	3	0
Yeo (Creedy)	Binneford	JBS	0	1	0
Brockey	Brooksbridge Cot	EP	1	1	0
Haddeo	Pixycopse	LAW	0	3	0

TABLE 3.

The 21 summer samples audited for South West Region, with sample sorter initials and numbers of taxa 'lost', 'gained' and 'omitted'

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River	Site	Sorter	Losses	Gains	Omissions
Aller Brook	U/s Edginswell PS	PG	1	2	1
Bratton Brook	Bratton Clovelly	PAB	0	1	0
Baldhu Stream	Bissoe Bridge	DJP	0	0	0
Millpool Stream	Millpool	DJP	3	2	0
Torridge	Woodford Bridge	JF	0	3	1
Torridge	Newbridge	JF	0	1	0
Newlyn	Skimmel Bridge	TJR	0	0	0
Newlyn	Newlyn Bridge	NB	1	1	0
Erme	Sequers Bridge	JF	0	2	0
Oare Water	Oare Bridge	AA	0 ·	2	0
Barbrook	D/s PS Dean	RG	1	0	0
Yeo (Molland)	Bish Mill Bridge	JBS	1	0	0
Offwell Brook	Roadpitt Farm	LAW	0	3	0
Beaford/Wooleigh	B3220 Bridge	LAW	1	1	0
Rye Stream	Loxhore Cross Br	LB	0	1	0
Holewater Stream	Linkleyham Bridge	EP	0	0	0
Synderford	Beere Farm	RP	0	4	0
Bovey	Blackaller Bridge	ТВ	0	3	0
Glaze Brook	Higher Turtley	TRG	0	1	0
Whatley stream	Ammerham	TB	1	1	0
Clyst	Withy Bridge	TRG	1	0	0

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TABLE 4.The 3 autumn samples audited for South West Region, with sample sorter initials and
numbers of taxa 'lost', 'gained' and 'omitted'.

River	Site	Sorter	Losses	Gains	Omissions
Dart	Dart Bridge	JF	0	0	0
Mole	Head Barton	TRG	0	0	0
Oare Water	Oare Bridge	ТВ	0	5	0

TABLE 5

Results of individual sample audits

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Hawkridge Brook
SEASON	Spring		SITE	U/s Hawkridge Bridge
SORTER	JBS		SAMPLE CODE	NRA06 3011
AQC OF	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Planorbidae*	2 Leptophlebiidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Planorbidae*

NET LOSSES 0

NOTES

1 Empty Zonitidae? shell in vial 2 Paraleptophlebia sp.

3 Hippeutis complanatus

.

NET GAINS 1

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Venn
SEASON	Spring		SITE	U/s Venn Bridge
SORTER	LMB	· · · · · · · · · · · · · · · · · · ·	SAMPLE CODE	NRA06 3004
AQC OF H	SMWP FAMILIES	A. IN VIAL		IN SAMPLE +

GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Nemouridae	2 Leptophlebiidae 3 Taeniopterygidae 4 Hydrophilidae

<u>Sample</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	5 Ephemerellidae 6 Goeridae 7 Lepidostomatidae

NET LOSSES 1

NOTES

- 2 Paraleptophlebia sp. 1 only 3 Brachyptera risi? 4 Hydraena gracilis 5 Ephemerella ignita 1 only 6 Silo nigricornis 1 only
- 7 Crunoecia irrorata 1 only

NET GAINS 6

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Sterridge
SEASON	Spring	SITE	Old Sawmill Inn
SORTER	RG	SAMPLE CODE	NRA06 3101
AQC OF 1	BMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +

LOSSES

GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Nemouridae 2 Chloroperlidae 3 Hydrophilidae 4 Leptoceridae

NET LOSSES 0

NET GAINS 4

NOTES

1 Nemoura cambrica group 1 only 2 Chloroperia tripunctata 1 only 3 Hydraena gracilis

4 Adicella reducta

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Lamorna Stream
SEASON	Spring		SITE	Lamorna
SORTER	TJR		SAMPLE CODE	NRA06 2109
AQC OF 1	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Ephemerellidae 2 Lepidostomatidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Hydrophilidae 4 Hydroptilidae
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NET LOSSES 0

NOTES

- 1 Ephemerella ignita 2 Lepidostoma hirtum
- 3 Hydraena gracilis
- 4 Ithytrichia sp. 1 only

NET GAINS 4

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Helford Gweek River
SEASON	Spring	SITE	Mether-Uny Mill Bridge
SORTER	NB	SAMPLE CODE	NRA06 1907
AQC OF 1	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Lepidostomatidae

SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Sphaeriidae 3 Hydroptilidae 4 Goeridae

NET LOSSES 0

NET GAINS

4

NOTES

1 Lepidostoma hirtum 2 Pisidium sp. 1 only 3 Ithytrichia sp. 1 only 4 Silo pallipes

AQC - BIOLOGICAL SAMPLES

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REGION	South West	RIVER	Porth Navas Stream
SEASON	Spring	SITE	Trenarth Bridge
SORTER	MAV	SAMPLE CODE	NRA06 1905
AQC OF I	BMWP FAMILIES A.	IN VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Gyrinidae

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Planariidae 3 Leptophlebiidae 4 Goeridae 5 Lepidostomatidae

NET LOSSES

0

NOTES

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- 1 Orectochilus villosus (larvae) 2 Polycelis felina
- 3 Paraleptophlebia sp.
- 4 Silo pallipes 1 only
- 5 Lepidostoma hirtum 1 only

NET GAINS

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Bray
SEASON	Spring	SITE	U/s Meethe Barton Bridge
SORTER	RG	SAMPLE CODE	NRA06 3031
AQC OF	BMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

0 Ð NET LOSSES NET GAINS NOTES

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER	Newlyn
SEASON Spring	SITE	Buryas Bridge
SORTER	SAMPLE CODE	NRAO6 2111
AQC OF BMWP FAMILIES A. II	N VIAL + B.	IN SAMPLE +
· · · · · · · · · · · · · · · · · · ·	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None
	4	
B <u>Sample</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only complete when no vial supplied with sample)	ed 1 Lymnaeidae 2 Lepidostomatidae
	NET LOSSES	NET GAINS 2

NOTES

1 Lymnaea peregra 1 only 2 Lepidostoma hirtum 1 only

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Abbey
SEASON	Spring		Hartland Abbey
SORTER	LB	SAMPLE CODE	NRA06 2802
AQC OF E	SMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Aphelocheiridae	None

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B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	(This box only completed when no vial supplied with sample)	2 Odontoceridae
ii) BMWP families found in SAMPLE by IFE		
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NET LOSSES 1

NOTES

1 Nymph of terrestrial Hemipteran in vial 2 Odontocerum albicorne 1 only

NET GAINS 1

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Hayle
SEASON	Spring		SITE	St Erth G.S.
SORTER	TJR		SAMPLE CODE	NRA06 2205
AQC OF	BMWP FAMILIES	A. IN VIAL	B.	IN SAMPLE +

·	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Lepidostomatidae

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET LOSSES 0

NET GAINS 1

NOTES

1 Lepidostoma hirtum

AQC - BIOLOGICAL SAMPLES

REGION South	lest	RIVER	Hayle
SEASON Spring		SITE	Godolphin Bridge
SORTER NB		SAMPLE CODE	NRA06 2204
AQC OF BMWP FAMI	LIES A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

2

NET GAINS

.

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Sphaeriidae 2 Hydroptilidae
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NET LOSSES 0

NOTES

1 Pisidium sp. 2 Oxyethira sp. 1 only

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AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Crooked Oak Stream
SEASON	Spring	SITE	D/s Yeo Barton Bridge
SORTER	JBS	SAMPLE CODE	NRA06 3026
AQC OF	BMWP FAMILIES A. IN VI	AL B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Leptophlebiidae

NET GAINS 1

.

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

0 NET LOSSES

NOTES

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1 Paraleptophlebia sp. 1 only

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Helford
SEASON	Spring	SITE	Mellangoose
SORTER	TJR	SAMPLE CODE	NRAO6 1909
AQC OF 1	BMWP FAMILIES A.	IN VIAL + B.	IN SAMPLE +

		LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE]
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Limnephilidae	

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Planariidae 3 Hydrobiidae 4 Glossiphoniidae 5 Perlodidae 6 Polycentropodidae 7 Goeridae

NET LOSSES

1 Potamophylax sp., Micropterna sequax

3 Potamopyrgus jenkinsi 1 only 4 Helobdella stagnalis 1 only 5 Isoperla grammatica 1 only 6 Plectrocnemia sp. 1 only 7 Silo pallipes 1 only

2 Polycelis felina

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NET GAINS

NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Mylor Creek
SEASON	Spring		SITE	Mylor Bridge
SORTER	DJP		SAMPLE CODE	NRA06 1902
AQC OF E	BMWP FAMILIES A.	IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families lis on sample data sh and ii) BMWP families four in SAMPLE by IFE	et with sample)	1 Elmidae 2 Psychomyiidae 3 Lepidostomatidae
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NET LOSSES 0

NOTES

1 Elmis aenea (larva) 1 only 2 Lype sp. 1 only 3 Lepidostoma hirtum

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NET GAINS

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Torridge
SEASON	Spring	SITE	U/s Woodford Bridge
SORTER	PG	SAMPLE CODE	NRA06 2916
AQC OF	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Leptophlebiidae

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B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Caenidae

0 NET LOSSES

NET GAINS

2 Caenis rivulorum NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Taw
SEASON	Spring	SITE	U/s Park Mill Bridge
SORTER	ΑΑ	SAMPLE CODE	NRA06 3014
AQC OF	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Elmidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

0 Т NET LOSSES NET GAINS NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Torridge
SEASON	Spring		SITE	D/s Rothern Bridge
SORTER	PG		SAMPLE CODE	NRA06 2908
AQC OF I	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Leuctridae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Gammaridae 3 Nemouridae 4 Lepidostomatidae

NET LOSSES 0 NET GAINS 4 TES 1 Leuctra geniculata 2 Crangonyx pseudogracilis 1 only 3 Amphinemura sulcicollis 4 Lepidostoma hirtum

NOTES

AQC - BIOLOGICAL SAMPLES

REGION South West		leet
SEASON Spring	SITE	ele Bridge (A39 Rd Br)
SORTER PAB	SAMPLE CODE	IRA06 2706
AQC OF BMWP FAMILIES A	IN VIAL + B. IN	SAMPLE +
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE		5 Ephemerellidae 6 Hydrophilidae 7 Hydropsychidae 8 Leptoceridae

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	9 Perlodidae 10 Chloroperlidae

NET LOSSES 4 NET GAINS 6 NOTES 6 Hydraena gracilis, H. rufipes 7 Hydropsyche pellucidula 8 Athripsodes albifrons 9 Isoperla grammatica 1 only 10 Chloroperla torrentium 1 only

.

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER	Porthleven
SEASON Spring	SITE	U/s from Harbour
SORTER PAB	SAMPLE CODE	NRA06 2101
AQC OF BMWP FAMILIES A. IN	I VIAL + B.	IN SAMPLE +
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	GAINS ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Sericostomatidae 2 Simuliidae*	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Simuliidae≭
		· ·

NET LOSSES 1

NET GAINS 0

NOTES

1 Empty cases 3 1 only in sample

.

AQC - BIOLOGICAL SAMPLES

		ſ <u></u>		
F	REGION	South West	RIVER Helford	
SEASON Spring		Spring	SITE	U/s Gweek Mill
SORTER MAV SAMPLE CODE NRAO		NRA06 1910		
Æ	AQC OF	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +
			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE		MWP families listed n sample data sheet and MWP families found	None	1 Oligochaeta 2 Hydrophilidae
		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
В		SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET GAINS 2 NET LOSSES 0 NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Okement
SEASON	Spring		SITE	South Dornaford
SORTER	AA		SAMPLE CODE	NRA06 2926
AQC OF I	BMWP FAMILIES A.	IN VIAL +	В.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Leptophlebiidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Dytiscidae 3 Simuliidae

. NET GAINS 3 0 NET LOSSES 2 Oreodytes sanmarkii (adult) 1 only NOTES 3 Simulium ornatum group 1 only

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER Lapford Yeo	· · · ·
SEASON Spring	SITE U/s Bow Bridge	2
SORTER PG	SAMPLE CODE NRAO6 3015	
AQC OF BMWP FAMILIES A. IN VIAL	+ B. IN SAMPLE +]

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Leuctridae	2 Chloroperlidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: 1) BMWP families listed on sample data sheet and 11) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Рвусһоmyiidae

1 NET LOSSES

2

NET GAINS

2 Chloroperla torrentium 1 only 3 Lype sp. 1 only

NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Allen
SEASON	Spring		SITE	Idless Bridge
SORTER	ÐJP	SAMPLE	CODE	NRA06 1935
AQC OF	BMWP FAMILIES A.	IN VIAL +	В.	IN SAMPLE +

	*	LOSSES	GAINS	
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None	

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found	(This box only completed when no vial supplied with sample)	1 Hydroptilidae 2 Leptoceridae 3 Lepidostomatidae
	in SAMPLE by IFE		
		· · ·	
		· · · · · · · ·	

NET LOSSES

0

NET GAINS

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NOTES

1 Ithytrichia sp. 2 Athripsodes sp. 1 only 3 Lepidostoma hirtum

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER	Otter
SEASON Spring	SITE	D/s Otterton Bridge
SORTER AA	SAMPLE CODE	NRA06 0406
AQC OF BMWP FAMILIES A. IN VIAL	+ B. 1	IN SAMPLE +

		LOSSES	GAINS
A <u>VIAL</u>		BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences b i) BMWP fami on sample and ii) BMWP fami in VIAL b	lies listed data sheet lies found	1 Notonectidae	2 Corixidae

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Planariidae

NET LOSSES 1

NOTES

2 Sigara distincta 3 Polycelis sp. 1 only NET GAINS

AQC - BIOLOGICAL SAMPLES

	· · · · · · · · · · · · · · · · · · ·		
F	REGION South West	RIVER	Clyst
S	SEASON Spring	SITE	A38 Bridge, Broadclyst
S	SORTER RG	SAMPLE CODE	NRA06 0510
A	AQC OF BMWP FAMILIES A. 1	IN VIAL + B.	IN SAMPLE +
		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Dendrocoelidae 2 Platycnemididae 3 Curculionidae	None
L			~
B	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None	
			· · · · · · · · · · · · · · · · · · ·	

NET LOSSES 3

0

NET GAINS

NOTES

3 Terrestrial species (Anthonomus sp.)

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Otter
SEASON	Spring		SITE	Weston
SORTER	DII/JS		SAMPLE CODE	NRA06 0403
AQC OF E	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Lymnaeidae	None

B <u>SA</u>	<u>MPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i) BMWP on sa ii) BMWP	es between: families listed mple data sheet and families found MPLE by IFE	(This box only completed when no vial supplied with sample)	None

	NET LOSSES 1	NET GAINS
NOTES		
	•	

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Lynher
SEASON	Spring		SITE	Notter Bridge
SORTER	РАВ		SAMPLE CODE	NRA06 1270
AQC OF I	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Brachycentridae 2 Simuliidae

		•
B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Planariidae 4 Ancylidae 5 Calopterygidae 6 Goeridae
	· · · · · · · · · · · · · · · · · · ·	

NET LOSSES 0

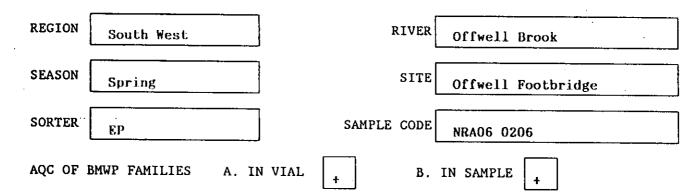
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NET GAINS

NOTES

1 Brachycentrus subnubilus (pupae) 2 Simulium vernum group 1 only 3 Polycelis felina 1 only 4 Ancylus fluviatilis 1 only 5 Calopteryx sp. (juvenile) 1 only 6 Silo pallipes 1 only

AQC - BIOLOGICAL SAMPLES



LOSSES

GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Corduliidae	2 Cordulegasteridae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Goeridae

1 2 NET LOSSES NET GAINS 2 Cordulegaster boltonii 1 only 3 Silo pallipes

NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Exe
SEASON	Spring		SITE	Exebridge
SORTER	RG		SAMPLE CODE	NRAO6 0535
AQC OF H	BMWP FAMILIES A	. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Curculionidae	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET LOSSES 1

NET GAINS 0

NOTES

1 Terrestrial species (Apion sp.)

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Corry Brook
SEASON	Spring		SITE	Old Corryton
SORTER	LAW	<u> </u>	SAMPLE CODE	NRA06 0229
AQC OF I	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

2

NET GAINS

VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Dytiscidae 2 Limnephilidae	3 Lepidostomatidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	4 Ephemerellidae

NET LOSSES 2

NOTES

3 Lepidostoma hirtum 4 Ephemerella ignita

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Inny
SEASON	Spring	·	SITE	St Clether Bridge
SORTER	NB		SAMPLE CODE	NRA06 1263
AQC OF P	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Taeniopterygidae 2 Brachycentridae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families lister on sample data sheet and		None
ii) BMWP families found in SAMPLE by IFE		
		· .

NET LOSSES 0 NET GAINS

2

NOTES

1 Brachyptera risi 2 Brachycentrus subnubilus (pupa)

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Penpont Water
SEASON	Spring		SITE	Two Bridges
SORTER	ВЈР		SAMPLE CODE	NRA06 1266
AQC OF I	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

LOSSES

GAINS

0

NET GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Curculionidae	None

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and	(This box only completed when no vial supplied with sample)	None
	ii) BMWP families found in SAMPLE by IFE		

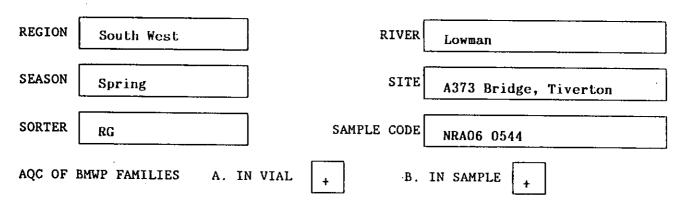
NET	LOSSES	1 _. .	
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NOTES

1 Terrestrial species (Otiorrhynchus sp.)

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AQC - BIOLOGICAL SAMPLES

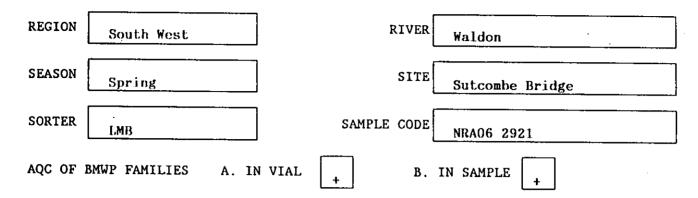


	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B .	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

0 NET GAINS 0 NET LOSSES NOTES

AQC - BIOLOGICAL SAMPLES



LOSSES	
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GAINS

VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET LOSSES

0

NET GAINS

0

NOTES

Psychomyiidae? confirmed = Tinodes waeneri

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Coly
SEASON	Spring	SITE	Woodbridge
SORTER	ЕР	SAMPLE CODE	NRA06 0208
AQC OF I	BMWP FAMILIES A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	1 Tipulidae

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET GAINS 1

NOTES

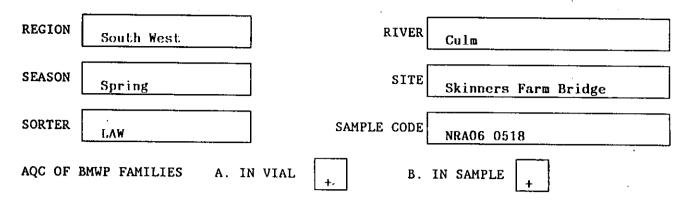
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1 Dicranota sp.

NET LOSSES 0

AQC - BIOLOGICAL SAMPLES



LOSSES

GAINS

<u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Agriidae	2 Lepidostomatidae

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Hydrobiidae 4 Psychomyiidae

NET LOSSES 1

NOTES

- 1 Cast skin in vial 2 Lepidostoma hirtum
- 3 Potamopyrgus jenkinsi 1 only
- 4 Psychomyia pusilla 1 only

NET GAINS

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER Yeo (Creedy)
SEASON Spring	SITE Binneford
SORTER JBS	SAMPLE CODE NRAO6 0562
AQC OF BMWP FAMILIES A. IN VIAI	L + B. IN SAMPLE +

LOSSES

GAINS

NET GAINS 1

	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

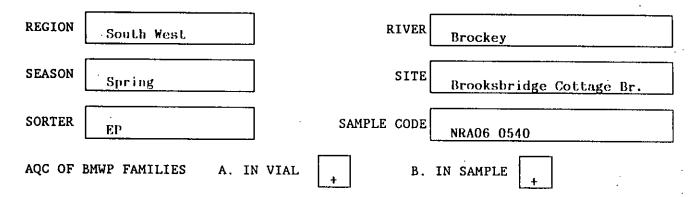
В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	<pre>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</pre>	(This box only completed when no vial supplied with sample)	1 Gammaridae

NET LOSSES 0

NOTES

1 Gammarus pulex

AQC - BIOLOGICAL SAMPLES



		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Planorbidae	2 Leptophlebiidae

3 <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET LOSSES 1

NOTES

1 Zonitoides sp. in vial 2 Indet Leptophlebiid juvenile NET GAINS 1

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER Haddeo	
SEASON	SITE Pixycopse	
SORTER	SAMPLE CODE NRAO6 0549	
AQC OF BMWP FAMILIES A. IN VIAL	+ B. IN SAMPLE +	

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Planariidae 2 Ephemerellidae 3 Brachycentridae

NET LOSSES 0

NOTES

1 Polycelis felina 1 only 2 Ephemerella ignita 2 Polycelis felina 1 only

3 Brachycentrus subnubilus (pupac)

NET GAINS

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Aller Brook
SEASON (Summer		SITE	U/s Edginswell PS
SORTER [PG		SAMPLE CODE	NRA06 0601
AQC OF B	MWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	1 llydrobiidac* 2 Lymnaeidae	None
ii) BMWP families found in VIAL by IFE		

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В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	3 Hydrobiidae * 4 Planorbidae 5 Gammaridae
			· · · ·

NET LOSSES 1

2

NET GAINS

1,2 Empty shells 3 Potamopyrgus jenkinsi 1 only

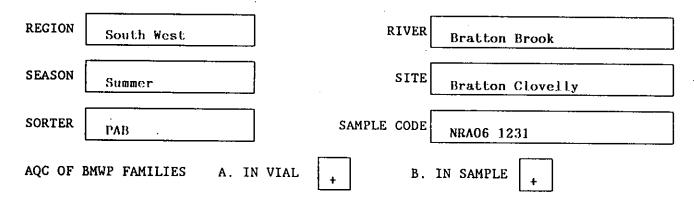
NOTES

- 4 Gyraulus albus 1 only
- 5 Crangonyx pseudogracilis 1 only

Other taxa

Libellulid(?) not found in vial but large Psocopteran (book louse) found in sample

AQC - BIOLOGICAL SAMPLES



	. LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Odontoceridae

NET LOSSES 0

1

NET GAINS

NOTES

Odontocerum albicorne 1 only

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER Baldhu Stream
SEASON Summer	SITE Bissoe Bridge
SORTER DJP	SAMPLE CODE NRAO6 1941
AQC OF BMWP FAMILIES A. IN VIAL	+ B. IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

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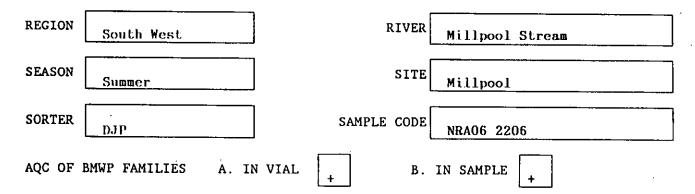
SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET GAINS 0

NET LOSSES 0

NOTES

AQC - BIOLOGICAL SAMPLES



LOSSES

GAINS

	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Platycnemididae 2 Scirtidae 3 Dryopidae	4 Coenagriidae 5 Gyrinidae

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET LOSSES 3

NOTES

2 Indet terrestrial larva 3 Terrestrial species Veloberus devedranbus (Scolutidae)

3 Terrestrial species Xyleborus dryographus (Scolytidae)

4 Ischnura elegans

5 Gyrinus sp. (larvae)

NET GAINS 2

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER
SEASON Summer	SITE Woodford Bridge
SORTER	SAMPLE CODE NRAO6 2916
AQC OF BMWP FAMILIES A. IN VIAL	B. IN SAMPLE +

LOSSES

GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Chloroperlidae*	None

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Piscicolidae 3 Glossiphoniidae 4 Chloroperlidae* 5 Polycentropodidae

NET LOSSES 0

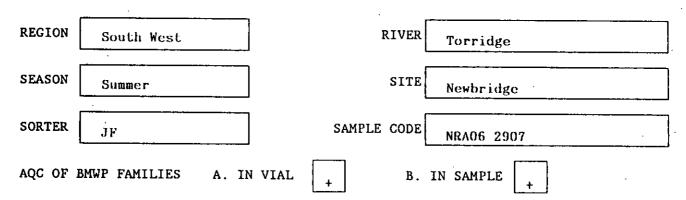
NOTES

2 Piscicola geometra 1 only 3 Helobdella stagnalis 1 only

- 4 Chloroperla torrentium
- 5 Polycentropus flavomaculatus 1 only

NET GAINS

AQC - BIOLOGICAL SAMPLES



	LOSSES	GAINS
	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE]
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Tipulidae	

NET GAINS 1

0 NET LOSSES

NOTES

1 Dicranota sp. 1 only

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER
SEASON Summer	SITE Skimmel Bridge
SORTER T.JR	SAMPLE CODE NRA06 2107
AQC OF BMWP FAMILIES A. IN VIAL	B. IN SAMPLE +

	LOSSES	GAINS
	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

NET LOSSES 0 NET GAINS 0 NOTES

AQC - BIOLOGICAL SAMPLES

REGION South West	RIVER
SEASON Summer	SITE Newlyn Bridge
SORTER NB	SAMPLE CODE NRA06 2108
AQC OF BMWP FAMILIES A. IN VIAL	B. IN SAMPLE +

LOSSES

GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	l Mesoveliidae	None

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Asellidae

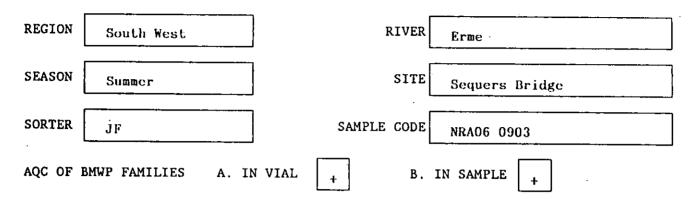
NET LOSSES 1

NET GAINS 1

NOTES

1 Velia sp. (nymph) in vial 2 Asellus meridianus 1 only L.....

AQC - BIOLOGICAL SAMPLES



LOSSES

GAINS

A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Nemouridae 2 Perlodidae
			· · · .

NET LOSSES 0

,

NOTES

1 Protonemura sp. 1 only 2 Periodes microcephala, Isoperia grammatica •

NET GAINS

AQC - BIOLOGICAL SAMPLES

R	EGION	South West	RIVER	Oare Water
S	EASON	Summer	SITE	Oare Bridge
S	ORTER	AA	SAMPLE CODE	NRA06 3205
A	QC OF I	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +
1			LOSSES	GAINS
A		VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	i) BN or ii) BN	rences between: WP families listed n sample data sheet and WP families found n VIAL by IFE	None	1 Rhyacophilidae
		· · · · · · · · · · · · · · · · · · ·	······	,
B		<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES

4	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Dytiscidae

NET LOSSES 0

NOTES

1 Rhyacophila dorsalis, Glossosoma sp. (pupa) 2 Oreodytes sanmarkii (adult) NET GAINS 2

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AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Barbrook
SEASON	Summer	SITE	D/s P.S. Dean
SORTER	RG	SAMPLE CODE	NRA06 3202
AQC OF 1	SMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +

LOSSES

GAINS

VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	1 Leptoceridae	None
ii) BMWP families found in VIAL by IFE		

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None
	· · ·	

1 0 NET LOSSES NET GAINS NOTES

AQC - BIOLOGICAL SAMPLES

REGION South West		Yeo (Molland)
SEASON Summer	SITE	U/s Bish Mill Bridge
SORTER JBS	SAMPLE CODE	NRA06 3028
AQC OF BMWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +
	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Hydroptilidae	None
B SAMPLE	BMWP FAMILIES NOT	ADDITIONAL FAMILIES

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
	Differences between: 1) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None	

1 NET LOSSES

0

NET GAINS

NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West		Offwell Brook
SEASON	Summer] site	Roadpitt Farm
SORTER	LAW	SAMPLE CODE	NRA06 0207
AQC OF B	MWP FAMILIES A. I	N VIAL + B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY 1FE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Planariidae 2 Planorbidae 3 Dytiscidae

0 NET LOSSES

NOTES

1 Polycelis nigra/tenuis 2Bathyomphalus contortus 1 only 3 Agabus sp. (larva) 1 only

NET GAINS

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AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Beaford/Wooleigh
SEASON	Summer	SITE	B3220 Road Bridge
SORTER	LAW	SAMPLE CODE	NRA06 2909
AQC OF BM	WP FAMILIES A. IN	N VIAL + B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
i)	ferences between: BMWP families listed on sample data sheet and BMWP families found in VIAL by IFE	1 Lymnaeidae	None

NOTES

В	SAMPLE	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	<pre>Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE</pre>	(This box only completed when no vial supplied with sample)	2 Brachycentridae

	NET LOSSES	NET GAINS
2 Brachycentrus subnub	ilus 1 only	

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Rye Stream
SEASON [Summer		SITE	Loxhore Cross Bridge
SORTER [LB	•	SAMPLE CODE	NRA06 3035
AQC OF B	MWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and	(This box only completed when no vial supplied with sample)	1 Hydroptilidae
	ii) BMWP families found in SAMPLE by IFE		

NET GAINS

NET LOSSES

NOTES

. 1 Agraylea sp. (pupa) 1 only

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Holewater Stream
SEASON	Summer	· · · · · · · · · · · · · · · · · · ·	SITE	Linkleyhan Bridge
SORTER	ЕР		SAMPLE CODE	NRAO6 3032
AQC OF	BMWP FAMILIES	A. IN VIAL	+ B. 1	IN SAMPLE

LOSSES

GAINS

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A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

В	<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None

0 0 NET LOSSES NET GAINS NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Synderford
SEASON	Summer	SITE	Beere Farm
SORTER	RP	SAMPLE CODE	NRA06 0218
AQC OF 1	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Sphaeriidae 2 Glossiphoniidae 3 Leptophlebiidae 4 Chloroperlidae

NET LOSSES 0

NOTES

1 Pisidium sp. 2 Glossiphonia complanata 1 only

- 3 Habrophlebia fusca 1 only
- 4 Chloroperla torrentium 1 only

4

NET GAINS

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Bovey
SEASON	Summer		SITE	Blackaller Bridge
SORTER	TB		SAMPLE CODE	NRAO6 0617
AQC OF B	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and	(This box only completed when no vial supplied with sample)	1 Hydrobiidae 2 Leptophlebiidae 3 Leptoceridae
ii) BMWP families found in SAMPLE by IFE		
	1	

NET LOSSES

0

NOTES

1 Potamopyrgus jenkinsi 2 Paraleptophlebia cincta 1 only 3 Mystacides sp. (pupa) 1 only

NET GAINS

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Glaze Brook
SEASON	Summer		SITE	Higher Turtley
SORTER	TRG		SAMPLE CODE	NRAO6 0812
AQC OF P	SMWP FAMILIES	A. IN VIAL	+ B. 1	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: 1) BMWP families listed on sample data sheet and 11) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Nemouridae

1 NET CAINS

NET LOSSES

0

NOTES

1 Protonemura sp. (juvenile) 1 only

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Whatley Stream	
SEASON	Summer		SITE	Ammerham	
SORTER	ТВ	· .	SAMPLE CODE	NRA06 0219	
AQC OF I	BMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +	

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	1 Planorbidae	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	2 Glossiphoniidae

1 NET LOSSES NET GAINS 1 1 Zonitoides found in vial NOTES 2 Glossiphonia complanata 1 only

AQC - BIOLOGICAL SAMPLES

) · · · · · · · · · · · · · · · · · · ·		
REGION	South West	RIVER	Clyвt	
SEASON	Summer	SITE	Withy Bridge	
SORTER TRG SAMPLE CODE NRAO6 0511				
AQC OF BMWP FAMILIES A. IN VIAL + B. IN SAMPLE +				
		LOSSES	GAINS	
A <u>VIAL</u>		BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences between: i) BMWP families listed on sample data sheet and		1 Mesoveliidae	None	

<u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None
- -		

NET LOSSES 1

0

NET GAINS

NOTES

ii) BMWP families found in VIAL by IFE

1 Velia sp. (nymphs) in vial

AQC - BIOLOGICAL SAMPLES

REGION	South West		Dart
SEASON	Autumn	SITE	Dart Bridge
SORTER	JF	SAMPLE CODE	NRA06 0708
AQC OF I	BMWP FAMILIES A.	IN VIAL + B.	IN SAMPLE +

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·	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>		BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE	
Differences be i) BMWP famil on sample and ii) BMWP famil in SAMPLE	ies listed data sheet ies found	(This box only comple when no vial supplie with sample)		

	NET LOS	SES 0 NET GAINS	0
NOTES		· · ·	
NOIES			
		· · ·	

AQC - BIOLOGICAL SAMPLES

REGION	South West		RIVER	Mole
SEASON	Autumn		SITE	Head Barton
SORTER	TRG]	SAMPLE CODE	NRA06 3024
AQC OF 1	SMWP FAMILIES	A. IN VIAL	+ B.	IN SAMPLE +

		LOSSES	GAINS
A	VIAL	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
	Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	None
		· · · · · · · · · · · · · · · · · · ·

NET LOSSES 0

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NET GAINS

0

NOTES

AQC - BIOLOGICAL SAMPLES

REGION	South West	RIVER	Oare Water
SEASON	Autumn	SITE	Oare Bridge
SORTER	ТВ	SAMPLE CODE	NBA06 3205
AQC OF 1	BMWP FAMILIES A. IN	VIAL + B.	IN SAMPLE +

	LOSSES	GAINS
A <u>VIAL</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in VIAL by IFE	None	None

B <u>SAMPLE</u>	BMWP FAMILIES NOT FOUND BY IFE	ADDITIONAL FAMILIES FOUND BY IFE
Differences between: i) BMWP families listed on sample data sheet and ii) BMWP families found in SAMPLE by IFE	(This box only completed when no vial supplied with sample)	1 Planariidae 2 Hydrobiidae 3 Leptophlebiidae 4 Nemouridae 5 Lepidostomatidae

0 5 NET LOSSES NET GAINS 1 Crenobia alpina NOTES 2 Potamopyrgus jenkinsi 3 Paraleptophlebia sp. 1 only 4 Protonemura sp. (juveniles) 5 Lepidostoma hirtum



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